

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for writing data to a recording medium, said method comprising:

writing location information and common information in each sector of a series of sectors of the recording medium in which data is to be written in response to a single data write request, said location information being information indicating a location of the sector in the series of sectors, said common information being information set-relating-to that is set to an identical value for each sector in the series of sectors and varying every time that varies with every single data write request issued for writing data writing to the series of sectors-occurs.

2. (previously presented) A method for writing data according to claim 1, wherein

at least one of the following information is set in the location information:

information indicating that the sector is a head sector of the series of sectors;

information indicating that the sector is a tail sector of the series of sectors;

and

information indicating that the sector is neither a head sector nor a tail sector of the series of sectors.

3. (original) A method for writing data to a recording medium according to claim 1, wherein the recording medium is a magnetic disk.

4. (currently amended) A method for validating data comprising the steps of:
writing location information and common information in each sector of a series of sectors of a recording medium in which data is to be written in response to a single data write request, said location information being information indicating a location of the sector in the series of sectors, said common information being information set relating to that is set to an identical value for each sector in the series of sectors and varying every time that varies with every single data write request issued for writing data writing to the series of sectors occurs;

reading out the location information and the common information which are written in each sector of the series of sectors of the recording medium; and
validating data based on the read out location information and common information.

5. (previously presented) A method for validating data according to claim 4, wherein the step of validating data is the step of:

validating data stored in a sector by deciding whether the common data of the sector is the same as common data of a sector immediately before the sector when the location information of the sector is information indicating that the sector is neither a head sector nor a tail sector of the series of sectors.

6. (currently amended) A computer comprising

a communication control unit, said communication control unit including a function to communicate with an external device;

an I/O control unit, said I/O control unit capable of writing and reading data to and from a recording medium; and

a cache memory, said cache memory being accessible by the communication control unit and the I/O control unit, and

wherein when the communication control unit receives a data write request from the external device, the communication control unit writes location information and common information in data to be written in each sector of a series of sectors of the recording medium in which data is to be written in response to the data write request, said location information being information indicating a location of the sector in the series of sectors, and said common information being information ~~set relating to that is set to an identical value for each sector in the series of sectors and varying every time that varies with every data write request issued for writing data writing to the series of sectors-occurs.~~

7. (currently amended) A computer comprising

a communication control unit, said communication control unit including a function to communicate with an external device;

an I/O control unit, said I/O control unit capable of writing and reading data to and from a recording medium; and

a cache memory, said cache memory being accessible by the communication control unit and the I/O control unit, and

wherein when the communication control unit receives a data write request from the external device, the I/O control unit adds location information and common information to data to be written in each sector of a series of sectors of the recording medium in which data is to be written in response to the data write request, said location information being information indicating a location of the sector in the series of sectors, and said common information being information ~~set relating to that is set to an identical value for each sector in the series of sectors and varying every time that varies with every data write request issued for writing data writing to the series of sectors occurs.~~

8. (previously presented) The computer according to claim 6,
wherein the I/O control unit reads out the location information and the common information written in each continuous sector of the recording medium when the communication control unit receives a data read request from the external device; and wherein

the communication control unit validates data based on the read out location information and common information.

9. (previously presented) The computer according to claim 6,
wherein the I/O control unit reads out the location information and the common information written in each continuous sector of the recording medium

when the communication control unit receives a data read request from the external device, and validates data based on the read out location information and common information.

10. (currently amended) A computer comprising:

a communication control unit, the communication control unit including a function to communicate with an external device;

an I/O control unit, the I/O control unit writing and reading data to and from a recording medium;

a cache memory, the cache memory being accessible by the communication control unit and the I/O control unit;

means for writing location information and common information in data to be written in each sector of a series of sectors of the recording medium in which data is to be written in response to a data write request, said location information being information indicating a location of the sector in the series of sectors, and said common information being information ~~set relating to~~ that is set to an identical value for each sector in the series of sectors when it receives the data write request from the external device and ~~varying every time~~ that varies with every data write request issued for writing data writing to the series of sectors ~~occurs~~;

means for reading out the location information and the common information written in each continuous sector of the recording medium after receiving a data read request from the external device; and

means for validating data based on the read out location information and

common information.

11. (currently amended) A disk array unit comprising:

a plurality of disk drives; and

a disk controller, the disk controller controlling writing and reading of data to and from the plurality of disk drives by a RAID5 method, wherein:

when writing data to the plurality of disk drives according to a read modify write method, the disk array unit writes location information and common information in each sector of a series of sectors of disks of the plurality of disk drives in which data is to be written in response to a single data write request, said location information being information indicating a location of the sector in the series of sectors, said common information being information ~~set relating to that is set to an identical value for each sector in the series of sectors and varying every time that varies with every single data write request for writing data writing to the series of sectors-occurs.~~

12. (currently amended) A disk drive comprising:

a magnetic disk;

communication means for communicating with an external device;

access means for writing and reading data to and from the magnetic disk corresponding to a control signal received by the communication means; and

write means for writing location information and common information in each sector of a series of sectors of the recording medium in which data is to be written in

response to a single data write request, said location information being information indicating a location of the sector in the series of sectors and said common information being information ~~set relating to that~~ is set to an identical value for each sector in the series of sectors and varying every time that varies with every single data write request for writing data ~~writing to the series of sectors occurs.~~

13. (currently amended) A disk drive comprising:
a magnetic disk;
communication means for communicating with an external device;
access means for writing and reading data to and from the magnetic disk corresponding to a control signal received by the communication means; and
validation means for reading out location information and common information written in each continuous sector of a recording medium in the disk drive and validating data based on the read out location information and common ~~information~~ information.

wherein said location information is information indicating a location of each sector, and

wherein said common information is information that is set to an identical value for each sector and that varies with every single data write request issued for writing data to each sector.

14. (currently amended) A disk drive comprising:
a magnetic disk;

communication means for communicating with an external device;

access means for writing and reading data to and from the magnetic disk
corresponding to a control signal received at the communication means;

validation means for reading out location information and common information
written in each continuous sector of a recording medium of the disk drive and
validating data based on the read out location information and common
~~information~~information.

wherein said location information is information indicating a location of each
sector, and

wherein said common information is information that is set to an identical
value for each sector and that varies with every single data write request issued for
writing data to each sector; and

signal output means for outputting a signal indicating that an abnormality has
occurred when an abnormality is detected by the validation.